

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Raphaël DUVAL

Serial No.: Divisional of 09/838,284

Examiner: Unknown

Filed: October 29, 2003

Group Art Unit: Unknown

Title: CROSS-LINKED POLYMERS BASED ON BIS-SILANE, BIS-THIOETHER, BIS-SULPHOXIDE, BIS-SULPHONE AND BUTANE-DI-YL DERIVATIVES OF POLYSACCHARIDES AND OLIGOSACCHARIDES, AND THEIR SHAPING AS SUPPORT MATERIALS

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.56, 1.97 AND 1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This information disclosure statement is made in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98 as follows:

TIMING AND FEES

- ☒ Under 37 C.F.R. § 1.97(b), no fee or statement is required for filing this information disclosure statement is filed:
- ☒ within three months of the filing date of a national application other than a CPA under § 1.53(d);
 - ☐ within three months of the actual filing date of the national phase of a PCT application; OR
 - ☐ before the mailing of a first substantive office action (including after filing of an RCE).
- ☐ Under 37 C.F.R. § 1.97(c), this information disclosure statement is filed after the periods specified in 37 C.F.R. § 1.97(b), but before the mailing date of:
- ☐ a final rejection under 37 C.F.R. § 1.113;
 - ☐ termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P § 609(B)(2); OR
 - ☐ a notice of allowance under 37 C.F.R. § 1.311; and

is accompanied by:

- ☐ the statement as specified in 37 C.F.R. § 1.97(e) set out below; OR
- ☐ a check covering the fee of \$180.00 under 37 C.F.R. § 1.17(p).
- ☐ Under 37 C.F.R. § 1.97(d), this information disclosure statement is filed after the mailing date of the following actions which have not been withdrawn:
 - ☐ a final action under 37 C.F.R. § 1.113;
 - ☐ termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P § 609(B)(2); OR
 - ☐ a notice of allowance under 37 C.F.R. § 1.311;

AND is filed on or before payment of the issue fee; AND is accompanied by:

- ☐ the statement as specified in 37 C.F.R. § 1.97(e) as set forth below, and the fee of \$180.00 under 37 C.F.R. § 1.17(p).

STATEMENTS UNDER 37 C.F.R. 1.97(e)

- ☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application having a mailing date not more than three months prior to the filing date of this information disclosure statement; or
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned attorney after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing date of the information disclosure statement.

CITED MATERIALS

- ☒ Copies of materials listed but not attached were cited in benefit (35 U.S.C. § 120) ancestor application Serial No. 09/838,284, on Form 892 by the Examiner and/or Form 1449 by the applicant; see 37 C.F.R. § 1.98(d).
- ☐ Copies of materials listed but not attached were cited in an international search report dated _____.
- ☐ Copies of the materials listed are attached (except for the foregoing).

NON-ENGLISH LANGUAGE REFERENCES

- ☐ An English-language search report or equivalent paper from a foreign patent office is provided indicating the relevance of the cited reference(s).

☐ A foreign-language search report from a foreign patent office is provided, and pertinent parts are translated substantively below:

X = document of particular relevance when it is taken alone
Y = document of particular relevance when it is combined with another such document
A = document defining the general state of the art
O = non-written disclosure
P = intercalated document
T = document cited to understand the theory or principle underlying the invention
E = patent document which has the benefit of a date earlier than the filing date and which was published only on or after this filing date
D = cited in the application
L = cited for another reason
& = publication of member of same patent family

☐ Translation of other relevant information on foreign search report

OTHER INFORMATION

None

PAYMENT OF FEES DUE (IF ANY):

- ☐ A check for \$_____ covering the fee identified above is attached.
- ☐ Please charge to Deposit Account No. 13-3402 \$_____ for the fee identified above.
- ☒ The Commissioner is hereby authorized to charge or credit any overpayment to Deposit Account No. 13-3402, two copies of this paper are attached for this purpose.

Respectfully submitted,

James E. Ruland, Reg. No. 37,432
Attorney for Applicants

MILLEN, WHITE, ZELANO &
BRANIGAN, P.C.
Arlington Courthouse Plaza 1, Suite 1400
2200 Clarendon Boulevard
Arlington, Virginia 22201
Telephone: (703) 243-6333
Facsimile: (703) 243-6410

Attorney Docket No.: PET-1802 D2

Date: October 29, 2003

Please type a plus sign (+) inside this box →



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

| | |
|------------------------|--------------------------|
| Application Number | Divisional of 09/838,284 |
| Filing Date | October 29, 2003 |
| First Named Inventor | Raphael DUVAL |
| Group Art Unit | Unknown |
| Examiner Name | Unknown |
| Attorney Docket Number | PET-1802 D2 |

U.S. PATENT DOCUMENTS

| Examiner Initials * | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY |
|------------------------|-----------------------|----------------------|--------------------------------------|--|---|
| | | Number | Kind Code ² (if known) | | |
| | A1 | 5,772,876 | | Murakami | 6-1998 |
| | A2 | | | | |
| | A3 | | | | |
| | A4 | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials * | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|------------------------|-----------------------|-------------------------|---------------------|--------------------------------------|--|--|--|----------------|
| | | Office ³ | Number ⁴ | Kind Code ⁵ (if known) | | | | |
| | B1 | WO | 95/18833 | | Oliveros | 7-1995 | | |
| | B2 | EP | 0 168 363 | | | 1-15-86 | | |
| | B3 | FR | 1 307 274 | | | 2-11-63 | | |
| | B4 | EP | 0 738 284 | | | 01-1996 | | |
| | B5 | | | | | | | |
| | B6 | | | | | | | |
| | B7 | | | | | | | |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|------------------------|-----------------------|---|----------------|
| | C1 | Minguillon, C. et al. "Bonded cellulose-derived high performance liquid chromatography ..." J. Chromatog. A, Vol. 728, pp. 415-422. | |
| | C2 | Olivers, L. et al. "Chiral chromatographic discrimination ability ..." J. Liq. Chromatog. Vol. 18, No. 8, pp. 1521-1532 | |
| | C3 | Franco, P. et al. "3,5-Dimethylphenylcarbamates of amylose, chitosan, and cellulose ..." J. Chromatog. A, Vol. 796, pp. 265-272. | |
| | C4 | Okamoto, Y. et al. "Useful chiral packing materials for high-performance liquid chromatographic resolution of enantiomers" J. Am. Chem. Soc., Vol. 107, No. 18, pp. 5357-5359. | |
| | C5 | Giuliana C. TESORO, "Cross-Linking of Cellulose with Polyfunctional Sulfones under Anhydrous Conditions", Vol. 32, No. 3, March 1, 1962, pp. 189-190. | |

Examiner
Signature

Date
Considered

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.